PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q83945

Yuko TACHIBANA, et al.

Appln. No.: 10/510,031

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: October 1, 2004

For:

CABLE, AND CABLE CONNECTION METHOD AND CABLE WELDING DEVICE

THEREFOR

SUBMISSION OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT (IPER)**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Examination Report (IPER). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

Respectfully submitted,

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WASHINGTON OFFICE 23373

CUSTOMER NUMBER

Date: December 9, 2004

ENT COOPERATION TREATY



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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anslation in	\mathbf{P}	CT			
MIS	ERNATIONAL PRELIMI	NARY EXAMINA	ATION REPORT		
	(PCT Article	36 and Rule 70)			
Applicant's or agent's file refere	FOR FORTIBALIT	CTION Preliminary	cation of Transmittal of Interna Examination Report (Form PCT/IPEA		
International application No. PCT/JP2003/0042	International filing da 32 02 April 2003	te (day/month/year) 3 (02.04.2003)	Priority date (day/month/year) 04 April 2002 (04.04.2002)		
International Patent Classification H01R 43/02, 4/02, H	on (IPC) or national classification at 01B 7/00, B23K 11/00	nd IPC			
Applicant	FUJIKU	RA LTD.			
and is transmitted to th 2. This REPORT consists This report is all amended and all amended	e applicant according to Article 30. s of a total of	s, including this cover , sheets of the descript	tion, claims and/or drawings which have ations made before this Authority (se		
These annexes	consist of a total of	_ sheets.			
	dications relating to the following i	tems:			
1 2	of the report		·		
II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicabil					
IV \ Lack	of unity of invention				
Danse	oned statement under Article 35(2) ons and explanations supporting suc	with regard to novelty, h statement	inventive step or industrial applicabilit		
VI 🔀 Certa	in documents cited				
VII Certain defects in the international application					
VIII Certz	in observations on the international	application			
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Date of submission of the de	mand	Date of completion	n of this report		
	er 2003 (30.09.2003)		01 April 2004 (01.04.2004)		
Name and mailing address of	f the IPEA/JP	Authorized office	г		
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Facsimile No.		Telephone No.			

PCT/JP2003/004232

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

	of the rep	
. With		the elements of the international application:*
\boxtimes	the interr	national application as originally filed
	the descr	ription:
	pages _	, as originary fried, filed with the demand
	pages _	, filed with the latter of
	pages _	, filed with the letter of
	the clain	ns:
	pages	, as originally filed
	pages	, as amended (together with any statement under Article 19
	pages	1
	pages	, filed with the letter of
	the drav	wings:
	pages	, as originally filed with the demand
	pages	, filed with the demand
	pages	, filed with the letter of
	the seque	nce listing part of the description:
	pages	, as originally filed
	pages	, fried with the demand
	pages	, filed with the letter of
	intemation ese elemen	to the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item. which is:
	the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).
	the lan	nguage of publication of the international application (under Rule 48.3(b)).
	or 55.3	nguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/3).
3. W	ith regard eliminary e	to any nucleotide and/or amino acid sequence disclosed in the international application, the international examination was carried out on the basis of the sequence listing:
		ined in the international application in written form.
		ogether with the international application in computer readable form.
[hed subsequently to this Authority in written form.
	furnis	thed subsequently to this Authority in computer readable form.
[intern	statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the lational application as filed has been furnished.
		statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.
4.	The a	amendments have resulted in the cancellation of:
" "		the description, pages
İ	Ħ	the claims, Nos.
	Ħ	the drawings, sheets/fig
5.	This r	report has been established as if (some of) the amendments had not been made, since they have been considered to go and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
ir	eplacemen this repo	nt sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
** A	nd 70.17). Inv renlace	ement sheet containing such amendments must be referred to under item $ 1 $ and annexed to this report.
	ny replace	



International application No.

PCT/JP03/04232

V. Lack of unity of invention					
1. In response to the invitation to restrict or pay additional fees the applicant has:					
restricted the claims.					
paid additional fees.					
paid additional fees under protest.					
neither restricted nor paid additional fees.					
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.					
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is					
complied with.					
not complied with for the following reasons:					
Claims 1-12 relate to a cable connection method, cables and a cable welder, wherein welding extending in the longitudinal direction of the conductor is carried out by means of a pair of electrodes separated from each other in the longitudinal direction. Claims 13-17 relate to a cable comprising a plurality of core wire conductors that are respectively connected to a plurality of contacts. These two groups of inventions are not found to be one invention group so related as to form a					
single general inventive concept.					
· ·					
 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report: 					
all parts.					
the parts relating to claims Nos.					



ation No. International PCT7JP03/04232

V. Reasoned statement under Article citations and explanations suppor	: 35(2) with r ting such sta	egard to novelty, inventive step or industrial applicability; tement	
1. Statement			
Novelty (N)	Claims	1-17	YES
2.0.5.7	Claims —		NO
	Clair	•	YES
Inventive step (IS)	Claims	1-17	NO
,	Claims –	1-1/	
Industrial applicability (IA)	Claims	1-17	YES
	Claims		NO
Document 2: JP, 2-132783, Document 3: JP, 60-50079, 6, 1985 (11.06) Document 4: JP, 9-161936, Document 5: JP, 7-153519, Document 6: JP, 11-354215	A (Toshib B2 (Tanal 5.85) A (Yazak A (The W 5, A (Mats	ns AG.), March 31, 1998 (03.31.98) a Corporation), May 22, 1990 (05.22.90) a Kikinzoku Kogyo K.K., Tanaka Chemical K.K.), Nov i Corporation), June 20, 1997 (06.20.97) Titaka Corporation), June 16, 1995 (06.16.95) ushita Electric Works, Ltd.), December 24, 1999 (12.24. and 9 do not appear to involve an inventive step over document of a model in a tabular metal conductors (15.15)	.99) uments

being formed as appropriate would be obvious to a person skilled in the art.

The inventions of claims 3, 6, 8 and 10 do not appear to involve an inventive step over document 1 and document 3 cited in the ISR. Document 3 (3rd column, lines 9-12), suggests that Au works as a brazing filler metal to form an alloy layer.

The inventions of claims 11 and 12 do not involve an inventive step over document 1 and document 4 cited in the ISR. The second embodiment described in document 4 relates to a welding device that causes a pair of electrodes (8 and 9) to move and come in contact with a connector.

The inventions of claims 13-17 do not appear to involve an inventive step over documents 5 and 6 cited in the ISR. Document 5 (paragraph [0024]) and document 6 (paragraph [0030]) describe the point that a core wire conductor of a cable and a connector are welded and connected to each other.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

tion No. International

PCT/JP03/04232

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.

Publication date (day/month/year) Filing date (day/month/year)

Priority date (valid claim) (day/month/year)

JP 2003-109708 A

11.04.03

28.09.01

[EX]

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)